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IN THE CLAIMS:

Claim 1. (Original) A method for matching orders comprising the steps of:

receiving a plurality of orders from a plurality of participants to buy and/or sell a plurality of products, each order being a unilateral order from one of said participants identifying a number of units of one of said products to buy or sell;

setting swap prices for said products; and

matching units of said orders based on constrained net activity for said participants and said products to maximize a number of units matched to obtain matched orders and unmatched orders, said matching independent of said swap prices.

Claim 2. (Original) A method as in claim 1, wherein said matching based on constrained net activity for said participants comprises matching units of orders such that a number of units to buy for a participant equals a number of units to sell for said participant.

Claim 3. (Original) A method as in claim 2, wherein said number of units to buy and said number of units to sell are weighted with non-unitary weightings.

Claim 4. (Original) A method as in claim 3, wherein said non-unitary weightings are based on said swap prices.

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Claim 5. (Original) A method as in claim 1, wherein said matching based on constrained net activity for said products comprises matching units of orders such that a number of units to buy for a product equals a total volume of units to sell for said product.

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Claim 6. (Currently Amended) A method as in claim 1, wherein said matching to maximize a volume of units matched comprises matching units of orders such that a number of units to buy and to sell is maximized.

Claim 7. (Original) A method as in claim 6, wherein said number of units to buy and to sell is weighted with non-unitary weightings.

Claim 8. (Original) A method as in claim 7, wherein said non-unitary weightings are based on said swap prices.

Claim 9. (Original) A method as in claim 1, wherein each of said unilateral orders is irrespective of a price to buy or sell.

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Claim 10. (Original) A method as in claim 1, wherein at least one participant submits a plurality of unilateral orders.

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Claim 11. (Original) A method as in claim 1, wherein said unilateral orders are received electronically via a network.

Claim 12. (Original) A method as in claim 1, further comprising the step of determining valuation differences for each participant based on said matched orders and said swap prices.

Claim 13. (Currently Amended) A method as in claim 12, wherein said matching to maximize a volume of units matched comprises minimizing said valuation differences.

Claim 14. (Original) A method as in claim 1, further comprising the step of notifying each participant having at least one matched order of said matched order.

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Claim 15. (Original) A method as in claim 14, wherein each participant is notified

electronically via a network.

Claim 16. (Original) A method as in claim 1, wherein said matching occurs after

expiration of a period for receiving orders.

Claim 17. (Original) A method as in claim 16, further comprising a next period for

receiving orders, said next period occurring after said matching, wherein orders for said next

period include unmatched orders from said period.

Claim 18. (Original) A method as in claim 1, wherein said matching occurs after

each order is received.

Claim 19. (Original) A method as in claim 1, wherein said matching uses linear

programming.

Claim 20. (Original) A method as in claim 1, wherein said matching uses quadratic or

higher-order programming.

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Claim 21. (Original) A method as in claim 1, further comprising the step of determining a priority for each order.

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Claim 22. (Original) A method as in claim 21, wherein said matching further comprises matching of units of said orders based on priorities of said orders.

Claim 23. (Original) A method as in claim 22, wherein said matching uses quadratic or higher-order programming.

Claim 24. (Original) A method as in claim 22, wherein said matching uses iterative linear programming to match orders having higher priority over orders having lower priority.

Claim 25. (Original) A method as in claim 24, wherein said matching uses heuristics to hot start or cold start iterations of said iterative linear programming.

Claim 26. (Currently Amended) A method as in claim 1, wherein said prices are determined based on at least one of current market prices, knowledge of said products, and [[a]] at least me financial model of said products.

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Claim 27. (Original) A method as in claim 1, further comprising the step of

swapping said matched orders and money to obtain swapped orders and swapped money.

Claim 28. (Original) A method as in claim 1, wherein said products comprise at least

one of commodities, securities, financial contracts, money, and any combination thereof.

Claim 29. (Original) A computer for performing the method of claim 1.

Claim 30. (Original) A computer-readable medium having software for performing

the method of claim 1.

Claim 31. (Original) A system for matching orders comprising:

means for receiving a plurality of orders from a plurality of participants to buy and/or

sell a plurality of products, each order being a unilateral order from one of said participants

identifying a number of units of one of said products to buy or sell;

means for setting swap prices for said products; and

means for matching units of said orders based on constrained net activity for said

participants and said products to maximize a volume of units matched to obtain matched

orders and unmatched orders, said matching independent of said swap prices.

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Claim 32. (Original) A system as in claim 31, wherein said means for matching further comprises matching of units of said orders based on priorities of said orders.